



ISO9001 & ISO14001 & TS16949 **CHILISIN ELECTRONICS CORP.**

Lead-Free & RoHs Compliance!!

SPECIFICATION FOR APPROVAL

CUSTOMER : ELTECH

CUSTOMER P/N : _____

OUR DWG No : CE1-360375

QUANTITY : X **Pcs.** **DATE :** 2013/9/4

ITEM : SL1013C-470K-N

SPECIFICATION ACCEPTED BY:	
COMPONENT ENGINEER	
ELECTRICAL ENGINEER	
MECHANICAL ENGINEER	
APPROVED	
REJECTED	

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**DRAWN
BY**

Jiusheng

**CHECKED
BY**

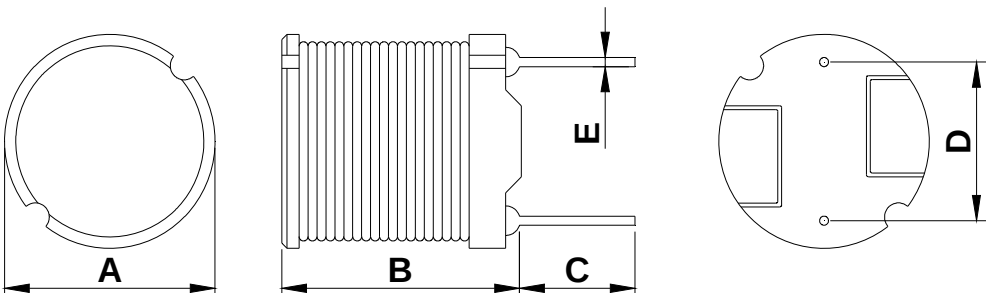
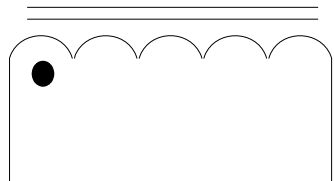
Liukan

**APPROVED
BY**

Tangshan

**QRA
BY**

SPECIFICATION FOR APPROVAL

CUSTOMER ELTECH				CLS DWG. NO. Rev A	
CUSTOMER'S PART NO/DWG NO.		DESCRIPTION SL1013C-470K-N		DATE 2013/9/4	
(1) MECHANICAL ASSEMBLY 				A	10.0±0.5 m/m
				B	14.4max m/m
				C	5.0±1.0 m/m
				D	5.0±0.3 m/m
				E	0.8±0.05 m/m
				F	m/m
				G	m/m
				H	m/m
				I	m/m
				J	m/m
(2) ELECTRICAL REQUIREMENTS				(3) SCHEMATIC 	
L	47.0±10% uH	TEST FREQUENCY	1KHZ	1V	
RDC	83.0max mΩ	TEST FREQUENCY	1KHZ	1V	
L(at 2.5A)	L drop 10%max uH	TEST FREQUENCY	1KHZ	1V	
(4) TEST INSTRUMENTS *HP4284A+HP42841A (L,IDC) *CH502BC (RDC) *Storage Temperature: Under 25℃ ,Humidity < 75% RH(6 Month) * Operating temperature -25℃ to +85℃					
NOTE: *Pin:8φ *Solder:Sn99.3Cu0.7				APPROVED BY Tangshan	
				CHECKED BY Liukan	
				DRAWN BY Jiusheng	
		VERSION	No.1		



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER ELTECH						CLS DWG. NO. Rev A		
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION SL1013C-470K-N			DATE 2013/9/4		
						QUANTITY		PCS.
MEAS. ITEM	L uH	RDC mΩ	L(at 2.5A) uH					
SPEC CUSTOMER SUGGEST	47.0±10%	83.0max	L drop 10%max					
TEST FREQ.	1KHZ 1V		1KHZ 1V					
1	45.90	50.50	45.80					
2	45.80	50.60	43.10					
3	45.70	50.10	45.91					
4	45.90	50.70	45.49					
5	46.00	50.90	45.60					
6	45.90	50.90	45.90					
7	46.01	50.90	45.70					
8	46.00	50.80	45.47					
9	46.30	50.30	45.60					
10	45.50	50.70	45.10					
11								
12								
13								
14								
15								
X	45.90	50.64	45.37					
R	0.80	0.80	2.81					
CUSTOMER SAMPLE								
TEST CONDITION:						TEMP. 25 °C R.H. 65%		
						APPROVED BY Tangshan		
						CHECKED BY Liukan		
						DRAWN BY Jiusheng		



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TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER							CLS DWG. NO.		Rev A	
ELTECH										
CUSTOMER'S PART NO./DWG.NO.			DESCRIPTION				DATE			
			SL1013C-470K-N				2013/9/4			
							QUANTITY		PCS.	
MEAS. ITEM	A mm	B mm	C mm	D mm	E mm					
SPEC CUSTOMER SUGGEST	10.0±0.5	14.4max	5.0±1.0	5.0±0.3	0.8±0.05					
TEST FREQ.										
1	10.12	14.11	4.83	5.17	0.81					
2	10.09	14.24	4.65	5.07	0.81					
3	10.14	14.19	4.76	5.10	0.80					
4	10.16	14.20	4.81	4.93	0.80					
5	10.12	14.29	4.94	5.05	0.81					
6	10.13	14.19	4.75	5.12	0.79					
7	10.14	14.12	4.83	5.07	0.78					
8	10.12	14.13	4.84	5.25	0.79					
9	10.10	14.07	5.13	5.16	0.82					
10	10.11	14.19	4.89	5.11	0.81					
11										
12										
13										
14										
15										
X	10.12	14.17	4.84	5.10	0.80					
R	0.07	0.22	0.48	0.32	0.04					
CUSTOMER SAMPLE										
TEST CONDITION:							TEMP.		25 °C	
							R.H.		65%	
							APPROVED BY Tangshan			
							CHECKED BY Liukan			
							DRAWN BY Jiusheng			

Rev
A

5. MATERIAL LIST :

ITEM	PART	DESCRIPTION	TEMP	SUPPLIERS	UL NO.
1	WIRE	2SFBW	155°C	JUNG SHING OR EQUIV	E174837
2	CORE	FERRITE		CHENZHOUE OR EQUIV	
3	EPOXY	FK661-500U		QIFU OR EQUIV	
4	Pin	0.8 φ		BEIQIXIN OR EQUIV	
5	Solder	Sn99.3Cu0.7		SHENYUAN OR EQUIV	

DRAWN BY	CHECKED BY	APPROVED BY	CUSTOMER : ELTECH	DATE	2013/9/4
Jiusheng	Liukan	Tangshan	PART NO :	REV	
			ISSUE NO : SL1013C-470K-N	RACE	



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1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage Z change: within $\pm 20\%$ RDC: within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs

1-2 Environmental Performance

No	Item	Specification	Test Method															
1-2-1	Temperature Cycle	Appearance: No damage Z change: within±20% RDC: within specification	One cycle:															
			<table><tr><th>Step</th><th>Temperature (°C)</th><th>Time (min)</th></tr><tr><td>1</td><td>-25±3</td><td>30</td></tr><tr><td>2</td><td>25±2</td><td>3</td></tr><tr><td>3</td><td>85±3</td><td>30</td></tr><tr><td>4</td><td>25±2</td><td>3</td></tr></table>	Step	Temperature (°C)	Time (min)	1	-25±3	30	2	25±2	3	3	85±3	30	4	25±2	3
			Step	Temperature (°C)	Time (min)													
			1	-25±3	30													
			2	25±2	3													
			3	85±3	30													
			4	25±2	3													
Total: 100cycles																		
Measured after exposure in the room condition for 24hrs																		
1-2-2	Humidity Resistance		Temperature: 40±2℃ Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs															
1-2-3	Heat Life		Temperature: 85±3℃ Relative Humidity: 0% Applied Current: Rated Current Time: 1000hrs Measured after exposure in the room condition for 24hrs															
1-2-4	Cold Resistance		Temperature: -25±3℃ Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs															